UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD PANEL

Before Administrative Judge Peter B. Bloch, Presiding Officer

)	
In the Matter of)	
)	
HYDRO RESOURCES, INC.)	Docket No. 40-8968-ML
2929 Coors Road, Suite 101)	
Albuquerque, NM 87120)	ASLBP No. 95-706-01-ML
• •)	
)	

WRITTEN TESTIMONY OF MAVIS SMITH

On behalf of Eastern Navajo Dine Against Uranium Mining ("ENDAUM") and Southwest Research and Information Center ("SRIC"), Mavis Smith submits the following testimony regarding the amended application of Hydro Resources, Inc. ("HRI") for a source materials license to conduct in situ leach ("ISL") uranium mining at three proposed sites in McKinley County, New Mexico, referred to as the "Crownpoint Uranium Project."

- Q.1. Please state your name.
- A.1. My name is Mavis Smith.
- Q.2. Where do you live?
- A.2. I live on the Navajo reservation in Brimhall, New Mexico,



Q.3. What is your occupation?

A.3. I am presently employed as the Office Manager for ENDAUM. I started working for ENDAUM in September, 1998. Before that, I was a full-time student at the University of New Mexico in Albuquerque, New Mexico. I graduated from the University of New Mexico on May 21, 1998. I have a Bachelor of Arts Degree in Psychology with a Minor in Human Services.

From May 29, 1998 to August 8, 1998, I served as an intern with the U.S. Department of Education, Office of Educational Research and Improvement in Washington. D.C.

- Q.4. Are you a member of the Navajo Tribe?
- **A.4.** Yes.
- Q.5. Do you speak the Navajo language?
- A.5. Yes. I am bilingual in Navajo and English.
- Q.6. Are you familiar with the Crownpoint Uranium Mining Project proposed by HRI?
- A.6. Yes. I have reviewed the Final Environmental Impact Statement to Construct and Operate the Crownpoint Uranium Solution Mining Project, Crownpoint, New Mexico ("FEIS") (February, 1997) as well as several other documents in the Hearing Record.

- Q.7. Have you performed work related to this proceeding on behalf of ENDAUM?
- **A.7.** Yes.
- Q.8. Please describe the work you have performed.
- A.8. As the staff person for ENDAUM, I conducted a land use survey in the Church Rock area, under the supervision of Dr. Robert Bullard.
- Q.9. What was the purpose of the land use survey?
- A.9. The purpose of the land use survey was to find out how people use the land in the Church Rock area near HRI's proposed uranium mining activities.
- Q.10. How did you develop the land use survey?
- A.10. Under the direction of Dr. Robert Bullard, I helped develop a survey which asked people living in the Church Rock area how they use their land, how many animals they own and graze, how and where they obtain water and for what uses, and how long they have lived at their home sites.
- Q.11. How did you determine which people to interview?
- A.11. Dr. Bullard determined that the boundaries of the survey area should include the northern portion of Township 16 North, Range 16 West, Section 2; Township 17 North, Range 16 West, Sections 35-36; Township 16 North, Range 16 West, Section 31; Township 15 North, Range 15 West, Sections 1-5; or in other words, an area within a 3 mile radius of the proposed mining project in Church Rock, including the project area itself. Then, based on the inspection of various maps and on my previous

knowledge of the Church Rock area, I traveled in my own vehicle to all of the homes within those boundaries.

Q.12. When did you conduct this land use survey?

A.12. I conducted interviews of the Church Rock area residents within the survey area on four days: January 20, January 30, January 31, and February 6, 1999.

Q.13. What survey methods did use use?

A.13. Dr. Bullard instructed me to conduct the survey as systematically as possible by asking the same questions of everyone, as they appear on the form, and by using the same Navajo language terms whenever I translated the survey into Navajo for Navajo-speaking residents. Generally, I recorded responses on the survey forms, but a few residents filled out their own forms. In recording responses, I sought to be as accurate as possible.

Q.14. How many surveys did you complete?

A.14. 45.

Q.15. Are the land use surveys in your possession?

A.15. Yes. The completed survey forms are attached to this testimony as Exhibit A.

Q.16. Does this conclude your testimony?

A.16. Yes.

AFFIRMATION

I declare under penalty of perjury on this graduary of February, 1999, at
New Mexico, that the foregoing is true and correct.
Mavis Smith
Sworn and subscribed before me, the undersigned, a Notary Public in and for
the State of New Mexico, on this 977-1 day of February, 1999. My Commission
expires on 10/05/00/.
Notes Dubling Sec
Notary Public V

Date of Survey: 1-20-99 Interviewer Non-South
Name of Person Interviewed: Jimmy H. Arviso Mailing Address:
P.O. Box 808 Church Rock, NM 87311 P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: Cell: The phone near your home? Yes No If no, do you have access to a telephone near your home? Yes No
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Old Church Rock Mine Road, Rural & 60A
(map of location attached? Yes No) How long have you lived at this location? All my life - over 60 years How long has this land been in your family? All my life - many generations How many people are in your family 1 2 3 4 5 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? If yes, how many head of livestock do you graze? # sheep 70; # cattle; # horses; # other dogs 4- Plus 90075
Do you use the land for growing crops? Yes No If yes, what kind of crops do you grow? Squash, melons, Com; watermely, beans If yes, how many acres are in crops?
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Yes No Cooking? Yes No Bathing? Yes No Irrigation? Livestock? Yes No Describe the quality of this water
Do you haul water for any purpose? (Yes) No Where do you get this water? Fed Rock State Park
How far away is this? 6 N 7 miles
How often do you haul water? Everyday
What do you use this water for? drynking cooking battung irrigation livestock
What do you use this water for? drynking, caoking, bathing in goth livestore Describe the quality of this water: good, Water 15 good for Cooking

Date of Survey: 1-20-99 Interviewer Non-Smith
Name of Person Interviewed: Johnny H. AVVISO
Mailing Address: Box 265 Church Rock 7m 8731/
P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W:
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Och Church Pock Rd, Rural 60B
(map of location attached? Yes No) How long have you lived at this location? How long has this land been in your family? How many people are in your family? 1 2 (3) 4 5 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? If yes, how many head of livestock do you graze? # sheep //O; # cattle; # horses; # other
Do you use the land for growing crops? Yes No If yes, what kind of crops do you grow? Vegetables; Squash, com, watermelon, beans If yes, how many acres are in crops?
Do you have running water in your home? What do you use this water for? Drinking? Yes No Cooking? Yes No Bathing? Yes No Irrigation? Livestock? Yes No No
Describe the quality of this water
Do you haul water for any purpose? Yes No
Where do you get this water? Red Renk State, Rehoboth and
- Gallup; we pay for the water.
How far away is this? 12 miles
How often do you haul water? Every day
How much (in gallons) do you haul at any one time? More 30 Gallons
What do you use this water for? Drunking cooking, bathling, mighting hvestor
Describe the quality of this water: Very good: treat

Date of Survey: 01-30-99	Interviewer_	Jan.	<i>30, 1999</i>	Mouth
Name of Person Interviewed: Tom Ar Mailing Address: Box 56 Ch. P.O. Box or Street Address				
Do you have a telephone in your home? If yes, your phone numbers are: H: If no, do you have access to a telephone near	W:	cell:		
What is the location of your home? (describ Chapter House, etc.): Happy Va	e by T-R-S, nearly - t	rest highway, di	stance from	
How long have you lived at this location? How long has this land been in your family? How many people are in your family? Do you use the land for grazing? If yes, how many acres are used for If yes, how many head of livestock of # sheep 40; # cattle; # hors	No Imake grazing?	2 years agr encrotion 4 5 c square	Yes No) (Tom Aruso) 5 gencrat 6 more? 10 Grandchu	70165
Do you use the land for growing crops? If yes, what kind of crops do you gro If yes, how many acres are in crops?		No wash, bear	12	
Do you have running water in your home? What do you use this water for? Describe the quality of this water	Drinking? Cooking? Bathing? Irrigation? Livestock?	Yes No Yes No Yes No Yes No Yes No Yes No		
Do you haul water for any purpose Yes Where do you get this water?	No with Rod	Red Re Rej State	ech- Park	
How far away is this?	2x co at any one time? MKing, 600	veek 50 (thems King, bethin	Pay for wa elves) 40 Ga	ter) vilons (livestock) r, livestock
Describe the quality of this water:	war is	oray	my Store,	

Date of Survey: 01-30-99 Interviewer Jan. 30, 1999 Mavis
Name of Person Interviewed: Sylvia Arviso
Mailing Address: Box 794 Church Rock, NM 87311 P.O. Box or Street Address
P.O. Box of Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: cell: If no, do you have access to a telephone near your home? Yes No
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Happy Valley - House # 1480
(map of location attached? Yes No) How long have you lived at this location? 2 long time 56 years since birth to today. How long has this land been in your family? Many accordance of the many people are in your family? 1 2 3 (4) 5 6 more? Ganachildren &
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? Imile square If yes, how many head of livestock do you graze? # sheep 21; # cattle 0; # horses 1; # other Do you use the land for growing crops? Yes No If yes, what kind of crops do you grow? 5 acres com Squash Com If yes, how many acres are in crops? 5 acres
Do you have running water in your home? What do you use this water for? Drinking? Yes No Cooking? Yes No Bathing? Yes No Irrigation? Yes No Livestock? Yes No
Describe the quality of this water
Do you haul water for any purpose? Yes No Where do you get this water? Church Fock, Rehaboth
How far away is this? 8 mules (one way) 16 round to p
How often do you haul water? every two weeks
How much (in gallons) do you haul at any one time? (3) 55 9 d l/ons
What do you use this water for? Aruking Cocking, buthing lives took
Rehaboth and Church Fork water is sometimes very dark;

Date of Survey: 1-20-99	Interviewer		Movis Smith
Name of Person Interviewed: Will	ian A	rus	SO
Mailing Address:	-0 0-	- De	N/M Canll
150V 808 , Chil	rch Ro	er,	1014 8/34
P.O. Box or Street Address			
Do you have a telephone in your home?	Yes (No		
If yes, your phone numbers are: H:	w:		cell:
If no, do you have access to a telephone nea	ir your home?	Yes	(No)
What is the location of your home? (describ	e by T-R-S, ne	arest hi	ighway, distance from
Chapter House, etc.): DIS Chur			
	(21	•	
How long have you lived at this location?	(map of local	tion atta	ached? Yes No)
How long has this land been in your family?	All he	5 11	e - many generations
How many people are in your family	2 3	4	5 6 more? <u>U</u>
Do you use the land for grazing? (Yes)	No		
If yes, how many acres are used for			
If yes, how many head of livestock d			
# sheep 5 ; # cattle; # hors		ner	
Do you use the land for growing crops?	Yes	No	
If yes, what kind of crops do you gro			
If yes, how many acres are in crops?			
Do you have running water in your home?		Yes (No
What do you use this water for?	Drinking?	Yes	No
	Cooking?	Yes	No
	Bathing?	Yes	No
	Irrigation? Livestock?	Yes Yes	No No
Describe the quality of this water _	Livestoek:		
Do you haul water for any purpose Yes	No		0
Where do you get this water?	ed Kork	Sto	ate Park; Kehoboth
and Gallup, I am	adisab	ole ve	eteran
How far away is this?	long wa	45 -	toofar, about 13 miles
How often do you haul water?	veryda	cy,	Feels very hard.
How much (in gallons) do you haul a	t any one time	? <u>Sbast</u>	20 gallins
	ivery thun	9;d	niking, cooking, washing, =
Describe the quality of this water:	very goi	00 <u>.</u>	

Date of Survey: 01-30-99	_Interviewer		Jan. 30, 1999 Mous
Name of Person Interviewed: Lorral Mailing Address: 572 Chu	né Beg voh Re	1	
Do you have a telephone in your home? If yes, your phone numbers are: H: If no, do you have access to a telephone near	Yes No W: r your home?	Yes	cell:
What is the location of your home? (describe Chapter House, etc.): Taberacle			
How long have you lived at this location? How long has this land been in your family? How many people are in your family?	Since b	urth	sched? Yes No) 58 Vrs is on my father side 5 o more? 14
Do you use the land for grazing? If yes, how many acres are used for g If yes, how many head of livestock d # sheep /7; # cattle //; # horse # goat Do you use the land for growing crops?	o you graze? es;# otl (Yes)	ner <u>dog</u> No	
If yes, what kind of crops do you gro If yes, how many acres are in crops?	- 54.14S	h,co	m, beans
Do you have running water in your home? What do you use this water for?	Drinking? Cooking? Bathing? Irrigation? Livestock?	Yes Yes Yes Yes Yes Yes	No No No No No No No No
Describe the quality of this water _			
Do you haul water for any purpose? Yes Where do you get this water?	no urch Rozk	, Ret	ndooth, (we pay for the water)
	two time		week 55 gallons
How much (in gallons) do you haul a What do you use this water for? <u>de</u>			
Describe the quality of this water:(~ 'J'	Jean	n Water

Date of Survey: 01-30-99	Interviewer_	Jan	, 30, 1999	Maus Sm
Name of Person Interviewed: Mailing Address: 0 2	ie Begar			
<u> </u>	hurch	ROZK,	NM	<u> </u>
P.O. Box or Street Address		,		
Do you have a telephone in your home? If yes, your phone numbers are: H: If no, do you have access to a telephone near	Yes No W: ur your home?	Yes No	1:	-
What is the location of your home? (describe Chapter House, etc.): Red Top R	e by T-R-S, nea	rest highway, o A-B	distance from	
	· ` · · · · · ·	on attached?	Yes No)	
How long have you lived at this location? How long has this land been in your family?	· · · · · · · · · · · · · · · · · · ·		Lie	
How many people are in your family? 1	past on y	rom genera 4 5	6 more?	
Do you use the land for grazing? If yes, how many acres are used for the land of livestock of land of land of livestock of land o	lo you graze?	er		
Do you use the land for growing crops?	(Yes	No		
If yes, what kind of crops do you gro	\ /	ines corn,	squash, water	rmelon Cantel
If yes, how many acres are in crops?	$\frac{3a}{}$	eres	<i>U</i> '	
Do you have running water in your home? What do you use this water for?	Drinking? Cooking? Bathing? Irrigation? Livestock?	Yes No Yes No Yes No Yes No Yes No		
Describe the quality of this water _	april water		s check rea	Worly
Do you haul water for any purpose? Yes	No	by .NTUA	ſ	,)
Where do you get this water? To Ma	sinano La	Ke		
How far away is this? Round	nip; 30 n	riles		
How often do you haul water?	often			
How much (in gallons) do you haul a	it any one time?	55 gc	uton X 3	
What do you use this water for? <u>Co</u>	ille	J		
Describe the quality of this water:	good water	er for 1	vestock	

Split open ground

Date of Survey: 1/31/49	Interviewer	Mo	wis C	Smith	
Name of Person Interviewed: Hazel Mailing Address: Pluisex 631 Ch	Curley	4 C	leah	is Curting	
P.O. Box or Street Address					
Do you have a telephone in your home? If yes, your phone numbers are: H: If no, do you have access to a telephone now What is the location of your home? (descri	ear your home?		No	11: yes distance from	
Chapter House, etc.): Beauti					
How long have you lived at this location? How long has this land been in your family How many people are in your family? 1	life or			Yes No)	
Do you use the land for grazing? If yes, how many acres are used for If yes, how many head of livestock # sheep; # cattle; # hor	r grazing? do you graze?		<u> </u>		
Do you use the land for growing crops? If yes, what kind of crops do you go If yes, how many acres are in crops			in	tonutur	
Do you have running water in your home? What do you use this water for?	Drinking? Cooking? Bathing? Irrigation? Livestock?	Yes Yes Yes Yes	No No No No No No		
Describe the quality of this water	1 hamin	n wa	Jin		
Do you haul water for any purpose? Yes Where do you get this water? Re	No <u>((120246-51</u>	ا معدد	purk	or Buba	nu _j
How far away is this? 6 the	12 st 11 12	ck Va			
How often do you haul water? $\underline{\mathscr{C}}$,				
How much (in gallons) do you hau	,		n kan	יייייי	
What do you use this water for?h	,			line to W.	sathery
Describe the quality of this water	. 1			·	,

11
Date of Survey: 1-70-99 Interviewer MMS SMIT
Name of Person Interviewed: Column Gray Mailing Address: Church Rock 8734 Policy 924
P.O. Box or Street Address
Do you have a telephone in your home? Yes W: 463-9543 cell: If yes, your phone numbers are: H: W: 463-9543 cell: If no, do you have access to a telephone near your home? Yes No
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Old Church Rock mine Read
(map of location attached? Yes No)
How long have you lived at this location? Le
How long has this land been in your family? Life How many people are in your family? 1 2 3 4 (5) 6 more?
Trow many people are in your failing? 1 2 3 4 (3) 6 more?
Do you use the land for grazing? Kes No If yes, how many acres are used for grazing? (C) If yes, how many head of livestock do you graze? # sheep 30; # cattle 6; # horses (C); # other (C)
Do you use the land for growing crops? Yes No If yes, what kind of crops do you grow? If yes, how many acres are in crops?
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Yes No Bathing? Yes No Irrigation? Yes No Livestock? Yes No
Describe the quality of this water
Do you haul water for any purpose? Yes No
Where do you get this water? Church Rock
How far away is this? 7 miles
How often do you haul water? one's in while
What do you use this water for? Drinking water
Describe the quality of this water:

A A
Date of Survey: 1-80-99 Interviewer NOVSSMI
Name of Person Interviewed: Jerald R. Hood Mailing Address:
KO Box 804 Church Kock New Mexico 81/311
P.O. Box or Street Address
Do you have a telephone in your home? Yes No CHRI Can Provide the Phone of the Phon
in no, do you have access to a telephone near your nome; Tes
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): leave Right across the home Sto close Highway 556.
(map of location attached? Yes No) How long have you lived at this location? Wany Vas. Wife Time
How long has this land been in your family? 19the Time
How many people are in your family? 1 2 3 4 5 6 more? Estably
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? 40 occes If yes, how many head of livestock do you graze? # sheep / 4 ; # cattle / 9 ; # horses 8 ; # other
Do you use the land for growing crops? Yes No If yes, what kind of crops do you grow? If yes, how many acres are in crops? 50 W. J. 800 10.
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Yes No Cooking? Yes No Bathing? Yes No Irrigation? Livestock? Yes No Livestock? Yes No
Describe the quality of this water This Water is part - will water.
Do you haul water for any purpose? Yes No
Where do you get this water? 1000 from the war Site for Hong 566
L'ours and Hoveres
How far away is this? 1/2 mile South of line Site along 566
How often do you haul water? Every two days Survey all the Tige.
How much (in gallons) do you haul at any one time?
What do you use this water for? Wellake and Cons and these
Describe the quality of this water: Right 1000 the later is left

Date of Survey: 1-20-99	Interviewer_116MS5m11
Name of Person Interviewed: dan 8	Hood
Mailing Address:	Churchrock 12m 83311
P.O. Box or Street Address	CHOICHIOCA 10 W. OBJ.
Do you have a telephone in your home? If yes, your phone numbers are: H: If no, do you have access to a telephone near	W;cell:
What is the location of your home? (describ	be by T-R-S, nearest highway, distance from
Chapter House, etc.): 3 mile not	orthaut of Springertood
	(map of location attached? Yes No)
How long have you lived at this location?	(map of location attached? Fes 140)
How long has this land been in your family?	? Coratina
How many people are in your family? 1	? <u>Chatina</u> 2 3 4 5 6 more? <u>\(\big \)</u>
Do you use the land for grazing? Yes V If yes, how many acres are used for	
If yes, how many head of livestock of # sheep 30; # cattle 18; # hors	• •
Do you use the land for growing crops? If yes, what kind of crops do you gro	row? Carn
If yes, how many acres are in crops?	1 TWO BUNGS
Do you have running water in your home?	Yes No
What do you use this water for?	Drinking? Yes No
Haul worter	Cooking? Yes ✓ No
11901 WATER	Bathing? Yes ✓ No
	Irrigation? Yes No
75 - 11 - d 12 - 0.4 1	Livestock? Yes No
Describe the quality of this water	Houl worter trem statepark
Do you haul water for any purpose? Yes	
Where do you get this water?	late part or Collep
How far away is this? Horeo	to sina miles from home
How often do you haul water? <u>full</u> Every Other Cay for Give How much (in gallons) do you haul a	up to three west for drinking water as at any one time? 40 gollons for drinking worker
	rinting ocoting Botting, Courtout
	water for cooking and bathing is good var
	- Per Guestock is kind of rustes Clas

Date of Survey: 1-20-99	Interviewer	<u>M</u> e	MSE	Almic	
Name of Person Interviewed: Ready Mailing Address:	ice Hoo	d			
P.O. Box or Street Address	Rock, N	M	<u>873//</u>		
Do you have a telephone in your home? If yes, your phone numbers are: H: If no, do you have access to a telephone ne	w:	Yes	cell	<u>: —-</u>	
What is the location of your home? (describe Chapter House, etc.): DH Church	oe by T-R-S, no	earest h	ighway, d	istance from # 102 B	
How long have you lived at this location?	(map of loca 2 long-time 2 MY GOTO 2 3	bor	n raise	Yes No) P.A. And Still lwing had C. Aver 100 VIS 6 more?	— <u>e,</u> 50) —
Do you use the land for grazing? Yes	No				
If yes, how many acres are used for	· · ·				
If yes, how many head of livestock of the sheep; # cattle3; # horse	see ·#ntl	1er			
During the tine mining, we lose they were killed by frucks (a Do you use the land for growing crops?	st our street	une No	morses	-,	
If yes, what kind of crops do you gr	ow? <i>Corn , s</i>	gnus	h,		
If yes, how many acres are in crops?	'	rc_			_
Do you have running water in your home?		Yes	No		
What do you use this water for?	Drinking?	Yes	No		
	Cooking?	Yes	No		
	Bathing?	Yes	No		
	Irrigation?	Yes	No		
Describe the quality of this water _	Livestock?	Yes	No	· · · · · · · · · · · · · · · · · · ·	_
Do you haul water for any purpose? Yes	No				
Where do you get this water?	allup				_
How far away is this?/877	iles rou	ra f	ир		<u> </u>
How often do you haul water?	2x aw	eK.			-
How much (in gallons) do you haul a	at any one time	?/	000	gallons	
What do you use this water for?	mKing, cod	King	bathin	a irrigation, lives	bock
Describe the quality of this water:	good'	<i></i>	`	יע <i>ו</i> ע יע	-

Date of Survey: 01-30-99	_Interviewer_		Jaw,	<i>30, 1999</i>	1 Moment
Name of Person Interviewed: Holland	t, Julia	a_			
Mailing Address: P.O. Box 244 P.O. Box or Street Address	54 G	Sali	lup	87305	
1.0. Dex of Birect radios					
Do you have a telephone in your home? If yes, your phone numbers are: H: If no, do you have access to a telephone nea	Yes No W:_ r your home?	Yes	cell:		<u>.</u>
What is the location of your home? (describe Chapter House, etc.):				stance from	
How long have you lived at this location? How long has this land been in your family?	(map of locate AU My 1)	θ,	Since,	, , , , , , , , , , , , , , , , , , ,)
How many people are in your family?	2 3	4 9	enerati 5	6 more?	
Do you use the land for grazing? Yes If yes, how many acres are used for g If yes, how many head of livestock d # sheep 70; # cattle; # horse	o you graze?	<u>-</u> .	<u>s</u> _		
Do you use the land for growing crops? If yes, what kind of crops do you gro If yes, how many acres are in crops?	Yes ow? Coyn 30	No Syl	uash S	, bean	2
Do you have running water in your home? What do you use this water for?	Drinking? Cooking? Bathing? Irrigation? Livestock?	Yes Yes Yes Yes Yes Yes	No No No No No No		
Describe the quality of this water	Livestock:	1 63			
Do you haul water for any purpose? Yes	No				
Where do you get this water? <u>CV</u> State t	rurch Park	20CK	Re	d Rick	<u> </u>
How far away is this?					<u> </u>
How often do you haul water?	2×an	veel			
How much (in gallons) do you haul a	•				
What do you use this water for?	n King, coo	cking	, bouth	ing, Ima	ation, livestick
Describe the quality of this water:	good wo	Her			

Date of Survey: 1-20-99 Interviewer Non-5711
Name of Person Interviewed: Marie A. Johnson Mailing Address: Bx 241 Church Rack, NN 8731 P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: cell: 979-3053 If no, do you have access to a telephone near your home? Yes No
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Old Church Rock mine Road, Rural # 60D
(map of location attached? Yes No) How long have you lived at this location? How long has this land been in your family? Overator years Past on from generation to How many people are in your family? 1 2 3 4 5 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? If yes, how many head of livestock do you graze? # sheep; # cattle; # horses; # other
Do you use the land for growing crops? Yes No If yes, what kind of crops do you grow? Corn, sauash beans with the melon If yes, how many acres are in crops? 4 acres
Do you have running water in your home? What do you use this water for? Drinking? Yes No Cooking? Yes No Bathing? Yes No Irrigation? Livestock? Yes No Livestock?
Describe the quality of this water
Do you haul water for any purpose? (Yes) No
Where do you get this water? Red Rock State Park, Rehoboth Water
How far away is this? about 5 miles
How often do you haul water? Every day
How much (in gallons) do you haul at any one time? 10 gallons
What do you use this water for? Drinking, cooking, bathing, irrigation, livestick
Describe the quality of this water: Red Rock State Park > clear, good

Date of Survey: 50, 30, 199 Interviewer Moves Smith
Name of Person Interviewed: Lester 3,1d Mary Jim Mailing Address: Rex 704 (hurch Rock, NM 8731) P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: cell: If no, do you have access to a telephone near your home? Yes No
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): The line Rd House 16
(map of location attached? Yes No) How long have you lived at this location? How long has this land been in your family? How many people are in your family? 1 2 3 4 5 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing?
Do you use the land for growing crops? (Yes No If yes, what kind of crops do you grow? (I'r n, Dunkin If yes, how many acres are in crops? (155 than du acre)
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Yes No Bathing? Yes No Irrigation? Livestock? Yes No
Describe the quality of this water accord from tine date
Where do you get this water? Reholath, we pay for the water
How far away is this? 9/2 one way to Relicible How often do you haul water? Every of ther day
How much (in gallons) do you haul at any one time? 25 gallons
What do you use this water for? (VESTOIC) Describe the quality of this water: Great Water; we pay 254 to 25%

Date of Survey: 12039 Interviewer Mans Smith
Name of Person Interviewed: Linda Jim Mailing Address: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
P.O. Box or Street Address P.O. Box or Street Address
Do you have a telephone in your home? If yes, your phone numbers are: H: W: W: The phone in your home? Yes W: Yes No No No No No No No No No N
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Pipe line Road - House # 161 B
(map of location attached? Yes No) How long have you lived at this location? 2 Years: Glussys been accound How long has this land been in your family? 2 Generalized How many people are in your family? 1 2 3 4 5 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? Acre If yes, how many head of livestock do you graze? # sheep; # cattle; # other
Do you use the land for growing crops? Yes No If yes, what kind of crops do you grow? Orn Oun Kin Squash If yes, how many acres are in crops? 1/2 acre
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Yes No Cooking? Yes No Bathing? Irrigation? Livestock? Yes No No
Describe the quality of this water Livestock? Yes No Pineclale
Do you haul water for any purpose? Yes No
Where do you get this water?
How far away is this?
How often do you haul water?
How much (in gallons) do you haul at any one time?
What do you use this water for?
Describe the quality of this water:

Date of Survey: 6031, 1999 Interviewer Monsomith
Name of Person Interviewed: Judy King Mailing Address: P. OBX 734 Church Reck, 71 87311
P.O. Box or Street Address
Do you have a telephone in your home? If yes, your phone numbers are: H: If no, do you have access to a telephone near your home? Yes No
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Prelime Rd House, ##
(map of location attached? Yes No) How long have you lived at this location?
How long has this land been in your family? How many people are in your family? 1 2 2 4 5 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? A heigh with If yes, how many head of livestock do you graze? # sheep 5; # cattle 12; # horses 5; # other # 902t 3;
Do you use the land for growing crops? Yes No If yes, what kind of crops do you grow? Com, Squash bears
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Hes No Cooking? Tes No Bathing? Tes No Irrigation? Yes No
Livestock? Yes No Describe the quality of this water
Do you haul water for any purpose? Yes No
Where do you get this water?
How far away is this?
How often do you haul water?
How much (in gallons) do you haul at any one time?
What do you use this water for?
Describe the quality of this water:

Date of Survey: 01-30-99 Interviewer Jan. 30, 1999 Mons Sr
Name of Person Interviewed: Cherlyn Kasuse + Harnson Kasuse Mailing Address: P.O. 273 Church Rock, NM 87311 P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: cell: L If no, do you have access to a telephone near your home? Yes No
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Tabernacle Rd House 161
(map of location attached? Yes No) How long have you lived at this location? (Net a Vear How long has this land been in your family? 2 to 3 generations How many people are in your family? 1 2 3 4 5 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? If yes, how many head of livestock do you graze? # sheep; # cattle; # horses; # other
Do you use the land for growing crops? If yes, what kind of crops do you grow? If yes, how many acres are in crops?
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Bathing? Irrigation? Livestock? Yes No No Livestock? Yes No No No No No No No No No N
Describe the quality of this water Sometimes and and Sometimes wet, when have
Do you haul water for any purpose? Yes (No Where do you get this water?
How far away is this?
How often do you haul water?
How much (in gallons) do you haul at any one time?
What do you use this water for?
Describe the quality of this water:

ENDAUM :	VAVAJO LAND USE SURVEY	
	JANUARY 1999	
al lange 31	Mhas	ملنـــ
Date of Survey: Maintily 31	_Interviewer	YXXII \
<i>H</i>	6 Louis	•
Name of Person Interviewed: (1) Name of Person Interviewed	Die Neuro	<u>.</u>
Mailing Address: FOR BOX 141 Char	urchrack, NM 873/1	
P.O. Box or Street Address		
Do you have a telephone in your home?	Yes No	
		•
If yes, your phone numbers are: H: If no, do you have access to a telephone near	your home? (Yes No 863 5	442 (Missage)
What is the location of your/home? (describ		e from
Chapter House, etc.): 4 miles min	1 Old UNC MUNE	
t,		
TY	(map of location attached? Yes	No)
How long have you lived at this location?		
How long has this land been in your family? How many people are in your family?	2 3 4 5 6	more? //
now many people are in your family?	2 3 4 3 0	more: _//
Do you use the land for grazing? Yes If yes, how many acres are used for	razing? /OU+	
If yes, how many head of livestock of # sheep; # cattle; # hors		
# sneep, # catale, # nots	.3 <u>/ C; </u>	
Do you use the land for growing crops?	Yes No	
Do you use the land for growing crops? If yes, what kind of crops do you gro	wi (USO - Celfalge)	
If yes, how many acres are in crops?		
Do you have running water in your home?	Yes_ No	
What do you use this water for?	Drinking? Yes No	
	Cooking? Yes No	
	Bathing? Yes No	
	Irrigation? Yes No	
To the desired the desired to	Livestock? Yes No	
Describe the quality of this water	Chaig	
Do you haul water for any purpose? Yes	No	
Where do you get this water?	Way KM	
How far away is this?	as sports	
How often do you haul water?	isikky	
How much (in gallons) do you haul a	any one time? 200 outlo	
How much (in gallons) do you haul a What do you use this water for?	survey without in	isto-ki
Describe the quality of this water:	Mile orite	

maili

Date of Survey: 61-31-99 Interviewer Movis Sm. H.
Name of Person Interviewed: Edison Leslie / Lena Leslie
Mailing Address: P.O. Bx 345 Gallup, NM 87305
P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: 863 8265 cell:
If no, do you have access to a telephone near your home? Yes No
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): 159A Pipe Rd.
(map of location attached? Yes No)
How long have you lived at this location? 4 years.
How long has this land been in your family?
How many people are in your family? 1 2 3 4 5 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? If yes, how many head of livestock do you graze? # sheep; # cattle; # horses; # other
Do you use the land for growing crops? If yes, what kind of crops do you grow? If yes, how many acres are in crops? Yes No No No If yes, what kind of crops do you grow? Yes No No Yes No Yes No Yes No Yes Yes No Yes Yes No Yes Yes No Yes Yes Yes No Yes Yes No Yes Yes No Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Ye
Do you have running water in your home? Yes No
What do you use this water for? Drinking? Yes No Cooking? Yes No Bathing? Irrigation? Yes No Livestock? Yes No
Describe the quality of this water
Do you haul water for any purpose? Yes No
Where do you get this water? Gallap
How far away is this? 25 miles (The way)
How often do you haul water?
How much (in gallons) do you haul at any one time? 7-10 9 will out
What do you use this water for? Will Kill, Col King, buttung
Describe the quality of this water: 9000

Date of Survey: 99 Inwary	Interviewer_	Monss	mith
Name of Person Interviewed:	(u) Alui	Ø	
Mailing Address: Pax Aux, G	illyp N	M	
P.O. Box or Street Address	,		-
Do you have a telephone in your home? If yes, your phone numbers are: H: If no, do you have access to a telephone need	Yes Wo W: 24. ar your home?) 3 3846 ce Yes No	11: 863-5442 MEANGE
What is the location of your home? (describe Chapter House, etc.): 4 miles 72mm	oe by T-R-S, nea	Minu)	distance from
How long have you lived at this location?	1	on attached?	Yes No) 6 more? _//
How many people are in your family? 1	2 3	4 5	6 more? _//
Do you use the land for grazing? Yes If yes, how many acres are used for If yes, how many head of livestock of # sheep; # cattle; # hors	grazing? <u>///</u> do you graze?		
Do you use the land for growing crops? If yes, what kind of crops do you gr If yes, how many acres are in crops?	Yes Cur	No	
Do you have running water in your home? What do you use this water for?	Drinking? Cooking? Bathing? Irrigation?	Yes No Yes No Yes No	
Describe the quality of this water _	Chay	Yes No	
Do you haul water for any purpose? Yes	No	2.0	
Where do you get this water?	Talley !	, 111	
How far away is this?	ulio c	apprex.	
How often do you haul water?	1 inchily	<u>, </u>	
How much (in gallons) do you haul			Gallas
What do you use this water for?	Lither O	untre -	Cirid schol
Describe the quality of this water:	1149 1 4	21	

Date of Survey: Jan. 31, 1999 Interviewer Movis Smith
Name of Person Interviewed: Marian Livingston
P.O. Box or Street Address P.O. Box or Street Address
1.0. Box of Succi Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W:
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Price to Road, 2/2 mile NW Thuy 566 as million
(map of location attached? Yes No)
How long have you lived at this location? more than 40 years
How long has this land been in your family? 4 generations
How many people are in your family? 1 2 3 4 5 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? 3 Section 5 If yes, how many head of livestock do you graze? # sheep 15; # cattle - ; # horses - ; # other - lectural due to With Contamination Do you use the land for growing crops? Yes No 21NC 50111
Do you use the land for growing crops? Yes No 21NC Sp.//) If yes, what kind of crops do you grow? The past not anymore because
If yes, how many acres are in crops? Of anness.
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Bathing? Irrigation? Livestock? Yes No Livestock? Yes No Livestock? Yes No Livestock? Yes No No Livestock? Yes No No Livestock? Yes No Livestock?
Describe the quality of this water Sometimes to much Cholonne it causes the pipes to nist.
Do you haul water for any purpose? Yes No
Where do you get this water? Round ter and
How far away is this? 100 / 22t
How often do you haul water?
How much (in gallons) do you haul at any one time?
What do you use this water for? LiveStrik
Describe the quality of this water: Good for westock

Date of Survey: 01-31-99 Interviewer Mans mith
Name of Person Interviewed: Peter Earl Rose Livingstone Mailing Address: Bix 305 Church Rock, NM 87311
P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: cell: ES If no, do you have access to a telephone near your home? Yes No
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Present Read - House #
How long have you lived at this location? How long has this land been in your family? How many people are in your family? (map of location attached? Yes No) Resetuting for (45 yes) How many people are in your family? 4
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? If yes, how many head of livestock do you graze? # sheep; # cattle; # horses; # other
Do you use the land for growing crops? Yes If yes, what kind of crops do you grow? If yes, how many acres are in crops?
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Yes No Bathing? Yes No Irrigation? Livestock? Yes No Livestock? Yes No
Describe the quality of this water somestimes (configuration to
Do you haul water for any purpose? Yes No Where do you get this water?
How far away is this?
How often do you haul water?
How much (in gallons) do you haul at any one time?
What do you use this water for?
Describe the quality of this water:

Date of Survey: 01-30-99 Interviewer Mons Smith
Name of Person Interviewed: Alten Livingsten
Name of Person Interviewed: Alter Livingster Mailing Address: f O. Bex 4/2 Church Rezk, NM 873
P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: cell: If no, do you have access to a telephone near your home? Yes No
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Scart Road, Mose Rock
Secreti Koad, Mose Reck
(map of location atjached? Tes No)
How long have you lived at this location? (ILI Truy III) 36 VEGES How long has this land been in your family? 3-4 (Veget Chris) How many people are in your family? (1) 2 3 4 5 6 more?
How long has this land been in your family? 3-4 (Note Collect)
How many people are in your family? 1 2 3 4 5 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? If yes, how many head of livestock do you graze? # sheep; # cattle; # horses; # other Do you use the land for growing crops? Yes No is, in the perfect that the perfect is the land for growing crops? If yes, what kind of crops do you grow?
If yes, what kind of crops do you grow?
If yes, how many acres are in crops?
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Yes No Cooking? Yes No Bathing? Irrigation? Livestock? Yes No No Livestock? Yes No
Livestock? (Yes No Describe the quality of this water <u>fine time</u> , to a nucl Chalenae
Do you haul water for any purpose? Yes No
Where do you get this water?
How far away is this?
How often do you haul water?
How much (in gallons) do you haul at any one time?
What do you use this water for?
Describe the quality of this water:

agripping level

Date of Survey: 01-31-99 Interviewer Mons Smith					
Name of Person Interviewed: 6km Y. Livingston Stardine livingston					
3.6-When Address					
Bx 512 Clurch Peak NM 87311					
P.O. Box or Street Address					
Do you have a telephone in your home? Yes (No)					
If yes, your phone numbers are: H: W: cell:					
If no, do you have access to a telephone near your home? Yes / No					
7/11/100 - 1515 458-6:45					
What is the location of your home? (describe by T-R-S) nearest highway, distance from					
Chapter House, etc.): Tyrenti Kund - House 144					
(map of location attached? Yes No)					
How long have you lived at this location? Since pirth 79 years					
How long has this land been in your family? 1945 Siction 34 (1380)					
How many people are in your family? 1 2 3 4 5 6 more? //					
Do you use the land for grazing? Yes No					
If yes, how many acres are used for grazing? [48]					
If yes, how many head of livestock do you graze?					
# sheep # cattle # horses ; # other					
= 0.012 FD					
Do you use the land for growing crops? Yes No					
If yes, what kind of crops do you grow? The land is Contamonated					
If yes, how many acres are in crops?					
Do you have running water in your home? (Yes) No					
What do you use this water for? Drinking? Yes No					
Cooking? Yes No					
Bathing? Yes No					
Irrigation? Yes (No.)					
Livestock? Yes No Describe the quality of this water 1/2 heard work, any in washing from the property of the					
Describe the quality of this water As heard warr, only the washing for por					
Do you haul water for any purpose? Yes No					
Where do you get this water? Chap well from Turn Lakes area.					
How far away is this? Alread 20 miles (energy)					
How often do you haul water?					
How much (in gallons) do you haul at any one time? So thous 160 per Month					
What do you use this water for? Chanking a Car Kind only					
Describe the quality of this water: Clear of Pare; with with all a good with					

Date of Survey: 01-31-99 Interviewer MOVIS Smith
Name of Person Interviewed: Range Slavaryston Amme Livingston Mailing Address:
P.O. Box or Street Address P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: cell: If no, do you have access to a telephone near your home? (Yes No
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Recent Road - House # 144
(map of location attached? Yes No) How long have you lived at this location? Since bith, life time, 39 years How long has this land been in your family? 3 Generation, and plus How many people are in your family? 1 2 3 4 5 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? If yes, how many head of livestock do you graze? # sheep 18; # cattle; # horses; # other
Do you use the land for growing crops? If yes, what kind of crops do you grow? If yes, how many acres are in crops? Concern for wealth.
Do you have running water in your home? What do you use this water for? Drinking? Yes No Cooking? Yes No Bathing? Yes No Irrigation? Livestock? Yes No
Describe the quality of this water
Where do you get this water?
How far away is this?A last 20 miles How often do you haul water?
Describe the quality of this water:

Date of Survey: 01-31-59 Interviewer Mans Smith					
Name of Person Interviewed: N. ISM Laurie Terric Livingston Mailing Address: 763 Church Rezik, NM					
Mailing Address: FOR 563 Church Rezik NIM -					
P.O. Box or Street Address					
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: cell:					
If no, do you have access to a telephone near your home? Yes No					
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Treate Road - 1/2 mike North					
<u>1586</u>					
(map of location attached? Yes No)					
How long have you lived at this location? Mayor than 50 years How long has this land been in your family? Many group than 2 groups the	0-1-1-				
How long has this land been in your family? Why Generation 2 GenCratic How many people are in your family? 1 2 3 4 (5) 6 more?	N.S.				
Do you use the land for grazing? Yes No					
If yes, how many acres are used for grazing?					
If yes, how many head of livestock do you graze?					
# sheep; # cattle 30; # horses; # other	_				
Do you use the land for growing crops? Yes No Bion with the					
If yes, what kind of crops do you grow?					
If yes, how many acres are in crops?					
Do you have running water in your home? Yes No					
What do you use this water for? Drinking? Yes No					
Cooking? Yes No					
Bathing? (Yes) No					
Irrigation? Yes No					
Livestock? Yes No Describe the quality of this water					
This with south the established					
Do you haul water for any purpose? Yes No					
Where do you get this water?					
How far away is this?					
How often do you haul water?					
How much (in gallons) do you haul at any one time?					
What do you use this water for? It like Control					
Describe the quality of this water: 110 1100 1100 1100					
2St JOHNS TOUS					

Date of Survey: Jan. 31, 1999 Interviewer Movis Smith				
Name of Person Interviewed: Johnson Livingston Mailing Address: F. O. Box 142 Church Rock, NM 8131				
P.O. Box or Street Address				
Do you have a telephone in your home? Yes No cell:				
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Highway 566 House 709				
(map of location attached? Yes No) How long have you lived at this location? Object 15 years How long has this land been in your family? 3 generations				
How many people are in your family? 1 2 3 4 5 6 more?				
If yes, how many acres are used for grazing? If yes, how many head of livestock do you graze? # sheep /C; # cattle //; # horses //; # other Do you use the land for growing crops? If yes, what kind of crops do you grow? If yes, how many acres are in crops? No If yes, how many acres are in crops? Do you have running water in your home? What do you use this water for? Drinking? Yes No Bathing? Yes No Irrigation? Yes No Livestock? Yes No				
Describe the quality of this water				
Do you haul water for any purpose? Yes No				
Where do you get this water? The County in t				
How far away is this? Crownprint - 2 bond 47 miles Gaillup 15 miles				
How often do you haul water? The a week				
How much (in gallons) do you haul at any one time? 600 gallons				
What do you use this water for? Annking, Cacking butking, impution hereitect				
Describe the quality of this water: Clean water for chinking & Cooking				

Date of Survey: January 30, Affinterviewer Mours Sm	with
	,
Mailing Address:	
Name of Person Interviewed: Gf-oria Livingston Mailing Address: Box 986 Church RR 717	
P.O. Box or Street Address	
Do you have a telephone in your home? Yes No	
If yes, your phone numbers are: H: W: Cell:	
If no, do you have access to a telephone near your home? Yes No	
What is the location of your home? (describe by T-R-S, nearest highway, distance fr	am
Chapter House, etc.): former (describe by 1-k-3, hearest highway, distance in	OIII
(map of location attached? Yes I	No)
How long have you lived at this location? Since buth 1 42 years	
How long has this land been in your family? 3 querations How many people are in your family? 1 2 3 4 5 6 mo	-a?
Trow many people are in your family? I 2 5 4 5 0 mo.	.6?
Do you use the land for grazing? (Yes) No	
If yes, how many acres are used for grazing? 50005	
If yes, how many head of livestock do you graze?	
# sheep 5; # cattle; # horses; # other	
- 4 gat	
Do you use the land for growing crops? Yes No	
If yes, what kind of crops do you grow? <u>UM, Squast, beans</u>	
If yes, how many acres are in crops?	.
Do you have running water in your home? Yes No	
What do you use this water for? Drinking? Yes No	
Cooking? Yes No	
Bathing? Yes No	
Irrigation? Yes No	
Livestock? Yes No	
Describe the quality of this water	
Do you haul water for any purpose Yes No	
Where do you get this water?	
- J / 	
How far away is this? 9/2 one way	<u> </u>
How often do you haul water? have a week	
How much (in gallons) do you haul at any one time? 55 Yallen	<u>.</u>
What do you use this water for? In hKing, Cooking, Bothing, 18	igation, livestock
	salfy
,	

Date of Survey: January 30, 1999 Interviewer MOVS Smith						
Name of Person Interviewed: 100 HVIIOS + 500 Mailing Address: 0 1 1 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1 1 10 0 1						
P.O. Box or Street Address Bx 142 Church Lock NM 873//						
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: cell: If no, do you have access to a telephone near your home? Yes No						
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Racart Rd - House 54D						
(map of location attached? Yes No) How long have you lived at this location? SINCL DUAN 66 VRMS How long has this land been in your family? 3 CHINATIONS						
How many people are in your family? 1 2 (3) 4 5 6 more?						
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? If yes, how many head of livestock do you graze? # sheep 2; # cattle; # horses; # other Do you use the land for growing crops? Yes No						
If yes, what kind of crops do you grow? <u>(M) SQUAS</u> If yes, how many acres are in crops? <u>(A) SQUAS</u>						
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Yes No Cooking? Yes No Bathing? Yes No Irrigation? Yes No Livestock? Yes No						
Describe the quality of this water						
Do you haul water for any purpose! Yes No						
Where do you get this water?						
How far away is this? 91/2 mile (one way)						
How often do you haul water? / X G Wilek						
How much (in gallons) do you haul at any one time? 250 GALLONS						
Describe the quality of this water: Som Willy Coking Com Colly						

Date of Survey An 30 1999	Interviewer	$-\gamma$	bussmith			
Name of Person Interviewed: MONINI LIVINGSTOL						
Mailing Address: P. C. Box 142	Churc	1	ZK, NM 8131)			
P.O. Box or Street Address			,			
Do you have a telephone in your home? If yes, your phone numbers are: H: If no, do you have access to a telephone ne	Yes No W: write was ar your home?	Yes	No cell:			
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Property Rd - HOUSC 54B						
How long have you lived at this location? How long has this land been in your family? How many people are in your family?						
Do you use the land for grazing? Yes If yes, how many acres are used for If yes, how many head of livestock of the sheep 2; # cattle, # horse Front 1:	do you graze?	her				
Do you use the land for growing crops?	Yes	No	ı			
If yes, what kind of crops do you gr		SALL	ash			
If yes, how many acres are in crops?	- <i>Ci</i>	cre				
Do you have running water in your home?		Yes (No >			
What do you use this water for?	Drinking?	Yes	No			
	Cooking?	Yes	No			
	Bathing?	Yes	No No			
	Irrigation? Livestock?	Yes Yes	No No			
Describe the quality of this water	LIVESTOCK:	1 63	110			
Do you haul water for any purpose? Yes	No					
Where do you get this water?	Zorly					
How far away is this?	miles	(ONE	(NOXA)			
How often do you haul water? Once a week						
How much (in gallons) do you haul at any one time? 250 93110015						
What do you use this water for? drukyy cocking bothung in gotton luestak						
Describe the quality of this water: God Waler from Gattup						

Shaft. Investock graze

Date of Survey: 01.31.99 Interviewer May Smith
Name of Person Interviewed: Sata Montoya Mailing Address: (2016)
Mailing Address: P.O. Box HO4 Gallup, N.M. 87305-0404 P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: 122-4117 W: 122-4411 cell: 469-2858 If no, do you have access to a telephone near your home? Yes, No
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): + tanding Rock Chapter
(map of location attached? Yes No)
How long have you lived at this location? (if e) How long has this land been in your family? 3 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
How long has this land been in your family? 3 Generations
How many people are in your family? 1 2 3 4 5 6 more? 40
Do you use the land for grazing? If yes, how many acres are used for grazing? If yes, how many head of livestock do you graze? # sheep 5; # cattle 25; # horses 5; # other
Do you use the land for growing crops? Yes If yes, what kind of crops do you grow? If yes, how many acres are in crops?
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Bathing? Irrigation? Livestock? Yes No Livestock? No Livestock? Yes No Livestock?
Describe the quality of this water CKan
Do you haul water for any purpose? Yes No
Where do you get this water? <u>Galup Churchrock</u> Crown point
How far away is this? 30 or more
How often do you haul water? <u>darly</u>
How much (in gallons) do you haul at any one time? 100 Gallers
What do you use this water for? dinking, cocking, nerses & cattle
Describe the quality of this water: Saltly, hardwater

ENDAUM NAVAJO LAND USE SURVEY JANUARY 1999 Interviewer Alfred /Vera Name of Person Interviewed: Mailing Address: Church Rosk NM P.O. Box or Street Address Do you have a telephone in your home? Yes If yes, your phone numbers are: H: \mathbb{N} If no, do you have access to a telephone near your home? Yes What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): # 165 Delive Rd -Rural address No (map of location attached? Yes Vera: 10 Years How long have you lived at this location? Alfred - all www life: 30 How long has this land been in your family? 3 generation 2 6 more? How many people are in your family? 1 Do you use the land for grazing? No If yes, how many acres are used for grazing? I mule square mule If yes, how many head of livestock do you graze? # sheep | ; # cattle 70 ; # horses 3 ; # other | Sul Hon at ovot Do you use the land for growing crops? No If yes, what kind of crops do you grow? If yes, how many acres are in crops? No Do you have running water in your home? What do you use this water for? Drinking? No Cooking? No Yes Bathing? Νo Irrigation? Ŷes Livestock? Yes (No)Describe the quality of this water (NII) W Do you haul water for any purpose? (Yes Where do you get this water? Wind mill near by How far away is this? How often do you haul water? TWICL A WELK How much (in gallons) do you haul at any one time? | CC Sallon In a week What do you use this water for? MYXS Describe the quality of this water:

Date of Survey: Jan 31 1999 Interviewer Move Smill
Name of Person Interviewed: 13sie Leslies / Ray Murphy Mailing Address: PO. Box 703 Church Rock, NM 873/
P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H:
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): LOCAL Conyon, Rd. 187D
(map of location attached? Yes No)
How long have you lived at this location? No vears How long has this land been in your family? 3 generation
How many people are in your family? 1 2 3 4 5 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? 3 miles square If yes, how many head of livestock do you graze? # sheep 3; # cattle Son; # horses Son; # other
Do you use the land for growing crops? (Yes) No
If yes, what kind of crops do you grow? A the COM DUMKIN POTATOES If yes, how many acres are in crops?
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Bathing? Irrigation? Livestock? Yes No Livestock? No No Livestock? No No No No No No No No No N
Describe the quality of this water Clean from Phoedale
Do you haul water for any purpose? Yes No Where do you get this water? Person
How far away is this? 10 miles one way
How often do you haul water? Once a week
How much (in gallons) do you haul at any one time? 2 binles
What do you use this water for? I WESTOR Wases Cattle Sheep
Describe the quality of this water: (NOTO also cruckoffe

- 1 1000 - Marc - 1 H
Date of Survey: Jan 30, 1998 Interviewer MONSSMITT
Name of Person Interviewed: Annie Nez /Alfred Nez
Mailing Address: POBX 703 (hurch Rock, NM 8731)
P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: 722-3876 cell: If no, do you have access to a telephone near your home? Yes No
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Pipe line Rd /870
(map of location attached? Yes No)
How long have you lived at this location? All my like, ever 50 years How long has this land been in your family? 3 Reperations or more
How many people are in your family? 1 2 30 4 5 6 more? 7 moles
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? If yes, how many head of livestock do you graze? # sheep 60; # cattle 75; # horses 3; # other
Do you use the land for growing crops? (Yes) No If yes, what kind of crops do you grow? Oryn, Squash If yes, how many acres are in crops?
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Yes No Cooking? Yes No Bathing? Irrigation? Livestock? Yes No Livestock? Yes No
Describe the quality of this water
Do you haul water for any purpose? Yes No
Where do you get this water? Sometimes from Gallup, nearby
How far away is this? Gallup 20 miles / Windmill /2 mile
How often do you haul water? Twice a week
How much (in gallons) do you haul at any one time? 50 fauchs
What do you use this water for? WYSCS
Describe the quality of this water:

Date of Survey: 01 31, 1999 Interviewer Move South
Name of Person Interviewed: AHa Yazzie / Delbert Antrono /Billy Mailing Address: Box 748 Church Rock NM
P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: cell: If no, do you have access to a telephone near your home? Yes No What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): (Xal Canyon Rd House)
(map of location attached? Yes No) How long have you lived at this location? How long has this land been in your family? How many people are in your family? 1 2 3 4 5 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? If yes, how many head of livestock do you graze? # sheep
If yes, what kind of crops do you grow? If yes, how many acres are in crops?
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Yes No Cooking? Yes No Bathing? Yes No Irrigation? Livestock? Yes No
Describe the quality of this water
Do you haul water for any purpose? Yes No Relabeth
How far away is this? miles (one way)
How often do you haul water?
How much (in gallons) do you haul at any one time? 2 gallon
What do you use this water for? anking cooking bathing Cleaning
Describe the quality of this water: Clain Water

Date of Survey: 61-30-99	Interviewer_		Jan 30, 1999 MBUS Smith
	Willian	ns	
Mailing Address: P.O. Box or Street Address	Jug5 he	4+	. Callyp., NM
P.O. Box of Street Address			,
Do you have a telephone in your home? If yes, your phone numbers are: H: If no, do you have access to a telephone near	Yes No W:wr your home?	X es	No Dead Hovse. This ft sto,
What is the location of your home? (describe Chapter House, etc.):	e by T-R-S, ne	earest his	ghway, distance from
How long have you lived at this location? How long has this land been in your family? How many people are in your family?	(map of local AMMY Many 2 3		ched? Yes No OVEY 45 YEATS Executions: 2 generation 5) 6 more?
Do you use the land for grazing? If yes, how many acres are used for If yes, how many head of livestock described by the sheep is a cattle in the sheep in the s	lo you graze? es; # oth	ser	
If yes, what kind of crops do you gro If yes, how many acres are in crops?	wiapple,	DOW ACK	ash, beans plum, grape, apricols, tree
Do you have running water in your home? What do you use this water for?	Drinking? Cooking? Bathing? Irrigation? Livestock?	Yes Yes Yes Yes Yes Yes	No No No No No No
Describe the quality of this water		_	
Do you haul water for any purpose? Yes	No		
Where do you get this water? AM PONK, Rehoboth Chin	17	. 1	Church Rock State
How far away is this?	9ºmile	3 (0	ne wry)
How often do you haul water?	mce a	wee t	K; Sometime 2x aweek
How much (in gallons) do you haul a	it any one time	?	50 gaillous
What do you use this water for? <u>M</u>	nkini (ci	KING	portning, Irngotion, Iwestock
Describe the quality of this water:	<u>0 - 10)</u>	1:1-2	CLOSA J

Date of Survey: 01-30-99 Interviewer Jan. 30, 1999 Mouis J. 4
Name of Person Interviewed: Tom Williams and ann Williams Mailing Address: 0 2 2 2 5 (C 1/44 52) 2 5 5 5
P.O. Box or Street Address P.O. Box 2654 Gallup n m 87305
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: — cell: If no, do you have access to a telephone near your home? Yes No Deachorse That H Store
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Happy Valley B6A
(map of location attached? Yes No) How long have you lived at this location? Tom William of 50 - Ann Williams - over How long has this land been in your family? Many generations, part a from grandparents How many people are in your family? 1 (2) 3 4 5 6 more? Mer
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? ** **Cores** If yes, how many head of livestock do you graze? # sheep 70; # cattle; # horses /_; # other
Do you use the land for growing crops? Yes No If yes, what kind of crops do you grow? The Squash blans If yes, how many acres are in crops? 3 deles
Do you have running water in your home? What do you use this water for? Drinking? Yes No Cooking? Yes No Bathing? Yes No Irrigation? Livestock? Yes No
Describe the quality of this water
Do you haul water for any purpose? Yes No
Where do you get this water? Church Rock, Red Pock State Park
How far away is this?
How often do you haul water? 2x a Welk
How much (in gallons) do you haul at any one time? 165 gallor
What do you use this water for? Drinking Cooking Buthing, Impation Mestor
Describe the quality of this water: Got water; taste god

Date of Survey: Jan 31, 1999 Interviewer MONS Smith
Name of Person Interviewed: Jerry Whiterak
Mailing Address: P.O. Bix 478 Church Rock Mm
P.O. Box or Street Address
Do you have a telephone in your home? Yes No SS 786 584 If yes, your phone numbers are: H: W: Cell: Cell: No
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): The line Rel the 20
(map of location attached? Yes No) How long have you lived at this location? We My by 5/ news
How long has this land been in your family? 3 general than
How many people are in your family? 1 2 $3\sqrt{4}$ (5) 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? A large are If yes, how many head of livestock do you graze? # sheep 3; # cattle 23; # horses F; # other
Do you use the land for growing crops? Yes (No
If yes, what kind of crops do you grow?
If yes, how many acres are in crops?
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Yes No Cooking? Yes No Bathing? Irrigation? Livestock? Yes No Livestock? Yes No
Describe the quality of this water
Do you haul water for any purpose? Yes No
Where do you get this water?
nearby Windmill
How far away is this? Hallup; He miles (on way) Windmill (12 mile)
How often do you haul water? Ohre a week
How much (in gallons) do you haul at any one time? 50 gallo
What do you use this water for? 11005+0212
Describe the quality of this water: Ballup water is that the treated

Date of Survey: Sun 31 1999 Interviewer MONS Smith
Name of Person Interviewed: / uci le Whiterock
Mailing Address: P. D. Box 478 Church Rock, NM
P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: ceil: Ceil: Ves No If no, do you have access to a telephone near your home? Yes No
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): 3 miles (Pipeline Rd House, 201A
(map of location attached? Yes No) How long have you lived at this location? All my life; over 30 years How long has this land been in your family? 3 query 16 How many people are in your family? 1 2 3 4 (5) 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? a large area If yes, how many head of livestock do you graze? # sheep 3; # cattle 28; # horses 7; # other # Audt
Do you use the land for growing crops? Yes No If yes, what kind of crops do you grow? If yes, how many acres are in crops?
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Yes No Cooking? Yes No Bathing? Irrigation? Livestock? Yes No Yes No Livestock? Yes No
Describe the quality of this water The Treffy gazd 1121.4
Do you haul water for any purpose? Yes No
Where do you get this water? Sometimes from Gally or
How far away is this? L'ailey Jo miles und mile Vmile
How often do you haul water? Once a week
How much (in gallons) do you haul at any one time? 50 Oxello
What do you use this water for? / Westake
Describe the quality of this water: Circles treated

Date of Survey: February 6, 1999 Interviewer Maus Smith
Name of Person Interviewed: Lamy J King Mailing Address: P. D. Box 2197 Garling nm
Mailing Address: 0 x 0
P.O. Box 2197 Garling nm
P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: 726-2529 cell: 876-067 If no, do you have access to a telephone near your home? Yes No
What is the location of your home? (describe by T-R-S, nearest highway, distance, from
Chapter House, etc.): 7 miks north in State Kd 566
(map of location attached? Yes No)
How long have you lived at this location?
How long has this land been in your family? More than 80
How many people are in your family? 1 2 3 4 5 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? If yes, how many head of livestock do you graze? # sheep
Do you use the land for growing crops? Yes No If yes, what kind of crops do you grow?
If yes, how many acres are in crops?
<u> </u>
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Yes No Cooking? Yes No Bathing? Yes No Irrigation? Yes No Livestock? Yes No
Describe the quality of this water
Do you haul water for any purpose? Yes No
Where do you get this water? Ked Rock State Hark of
How far away is this? 30 (Due 4) all
How often do you haul water? The a walk
How much (in gallons) do you haul at any one time? 30 Gallono (domesticuse)
What do you use this water for? Aurkey asking bathing
Describe the quality of this water: QCL &

Date of Survey: February 6, 1999 Interviewer Mavis Smith
Name of Person Interviewed: 1 prothy King Mailing Address: P. 0. Box 5296 Gallup, NM 87305
P.O. Box or Street Address
Do you have a telephone in your home? If yes, your phone numbers are: H: If no, do you have access to a telephone near your home? Yes No What is the location of your home? (describe by T. P. S. posset his home)
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): / Miles moth on State Rd 566
(map of location attached? Yes No) How long have you lived at this location? How long has this land been in your family? So wears and more How many people are in your family? 1 2 3 4 5 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? 480 acres If yes, how many head of livestock do you graze? # sheep 0; # cattle 5; # horses 1; # other 0
Do you use the land for growing crops? Yes If yes, what kind of crops do you grow? If yes, how many acres are in crops?
Do you have running water in your home? What do you use this water for? Drinking? Yes No Cooking? Yes No Bathing? Yes No Irrigation? Yes No
Livestock? Yes No Describe the quality of this water
Do you haul water for any purpose? Yes No
Where do you get this water? RCA Rock State Park
How far away is this? 14 miles (round Inp
How often do you haul water? Twice a weck
How much (in gallons) do you haul at any one time? 50 02/1015
What do you use this water for? dianking (wking, bathing
Describe the quality of this water: 100d

Date of Survey: February 6, 1999 Interviewer Mon's Smith
Name of Person Interviewed: Rita J. Grey Mailing Address: P.O. Box 148 Rehoboth, NM 87322 P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W:
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): / MIJES NOVAN EN State Rd 566
(map of location attached? Yes No) How long have you lived at this location? If the me How long has this land been in your family? More than 50 years How many people are in your family? 1 2 3 4 (5) 6 more?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? 480 If yes, how many head of livestock do you graze? # sheep ; # cattle 10; # horses ; # other 3 dogs
Do you use the land for growing crops? Yes If yes, what kind of crops do you grow? If yes, how many acres are in crops?
Do you have running water in your home? What do you use this water for? Drinking? Yes No Cooking? Yes No Bathing? Yes No Irrigation? Yes No Livestock? Yes No
Describe the quality of this water
Do you haul water for any purpose? Yes No Where do you get this water? <u>Rehobeth</u>
How far away is this? 12 (one way) How often do you haul water? 3 X a week How much (in gallons) do you haul at any one time? 50-400 (addition for livestock
What do you use this water for? drinking Cooking bathing livestock. Describe the quality of this water: 1000

Date of Survey: February 6, 1999 Interviewer Maris Smith
Name of Person Interviewed: I rene Eskeets
Mailing Address: P. D. Box 318 Church Rock, NM 87311
P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W:
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): [MIHES NOITH OF CHURCH ROCK]
(map of location attached? Yes No) How long have you lived at this location? How long has this land been in your family? How many people are in your family? 1 2 3 4 5 6 more? ———————————————————————————————————
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? If yes, how many head of livestock do you graze? # sheep; # cattle; # other
Do you use the land for growing crops? Yes If yes, what kind of crops do you grow? If yes, how many acres are in crops?
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Yes No Bathing? Yes No Irrigation? Yes No Livestock? Yes No
Describe the quality of this water Tasks funy
Do you haul water for any purpose? Yes No
Where do you get this water? Lity of ballup
How far away is this? 30 miks nound trip
How often do you haul water? once a live K
How much (in gallons) do you haul at any one time? 20 90/1013
What do you use this water for? <u>dnn King</u> and Cocking
Describe the quality of this water:

Date of Survey: February 6, 1999 Interviewer May 18 Smith
Name of Person Interviewed: ON BESSIE ESKEET Mailing Address:
P.O. Box or Street Address
Do you have a telephone in your home? Yes No If yes, your phone numbers are: H: W: cell: If no, do you have access to a telephone near your home? Yes No
What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.):
How long have you lived at this location? (map of location attached? Yes No) How long have you lived at this location?
Do you use the land for grazing? Yes No If yes, how many acres are used for grazing? 320 acres If yes, how many head of livestock do you graze? # sheep 20; # cattle; # horses; # other
Do you use the land for growing crops? Yes No If yes, what kind of crops do you grow? If yes, how many acres are in crops?
Do you have running water in your home? What do you use this water for? Drinking? Cooking? Bathing? Irrigation? Livestock? Yes No Livestock? Ves No Livestock? No Cooking? Ves No Livestock? Ves No Cooking? Ves No
Describe the quality of this water Livestock? (Yes) No How Much Chilorine
Do you haul water for any purpose? Vel No
Where do you get this water?
How far away is this?
How often do you haul water? Wenthy - weekly
How much (in gallons) do you haul at any one time? 50 Gallons
What do you use this water for? drn/ccp cocking
Describe the quality of this water: Good